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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/628,366	07/29/2003	Masaki Hara	240895US6	5977
22850	7590 07/25/2006		EXAMINER	
C. IRVIN MCCLELLAND			MANOHARAN, VIRGINIA	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			1764	

DATE MAILED: 07/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.					
Office Action Summary		Application No.	Applicant(s)				
		10/628,366	HARA, MASAKI	1			
		Examiner	Art Unit				
		Virginia Manohara					
The Need Period for Repl	MAILING DATE of this communicat y	ion appears on the cover s	sheet with the correspondence	address			
WHICHEVE - Extensions of t after SIX (6) M - If NO period fo - Failure to reply Any reply recei	NED STATUTORY PERIOD FOR R IS LONGER, FROM THE MAIL ime may be available under the provisions of 37 ONTHS from the mailing date of this communical reply is specified above, the maximum statutor within the set or extended period for reply will, level by the Office later than three months after the term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS CON CFR 1.136(a). In no event, however ation. Ty period will apply and will expire SI by statute, cause the application to be	MMUNICATION. er, may a reply be timely filed X (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠ Respo	nsive to communication(s) filed o	n <i>06 February 2006.</i>					
	_	☐ This action is non-final					
3) Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	in accordance with the practice u	·	·	\sim			
Disposition of (Claims						
4) Claim(s) <u>1-7</u> is/are pending in the applic	ation.					
·	4a) Of the above claim(s) <u>6-7</u> is/are withdrawn from consideration.						
, 5)☐ Claim(s) is/are allowed.						
6)⊠ Claim(☑ Claim(s) <u>1-5</u> is/are rejected.						
	s) is/are objected to.						
8)∐ Claim(s) are subject to restriction	and/or election requirem	ient.				
Application Pag	pers						
9) □ The sp	ecification is objected to by the Ex	xaminer.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 3	5 U.S.C. § 119						
a)	vledgment is made of a claim for b) Some * c) None of: Certified copies of the priority document to the certified copies of the priority document to the certified copies of	cuments have been received the contract of the	ved. ved in Application No ve been received in this Nation	al Stage			
	application from the International attached detailed Office action fo	·					
Attachment(s)							
	erences Cited (PTO-892)	, —	nterview Summary (PTO-413) aper No(s)/Mail Date				
3) Information D	tsperson's Patent Drawing Review (PTO-isclosure Statement(s) (PTO-1449 or PTC fail Date	5) D/SB/08)	Iotice of Informal Patent Application (Pother:	'TO-152)			

Application/Control Number: 10/628,366

Art Unit: 1764

DETAILED ACTION

Applicant's election of Group I, claims 1-5 in the reply filed on February 6, 2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors, e.g., typographical, grammar, idiomatic, syntax and etc. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim 3 is objected to because of typographical error such as "gain" in claim 3, line 3.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over TeGrotenhuis et al (6,666,909) with or without Eastman (4,196,504) or Thomas ((6,158,502).

TeGrotenhuis discloses substantially the features of the apparatus as claimed. That is, TeGrotenhuis discloses, teaches or suggests the claimed "..thermal transport apparatus comprising: a substrate having a flow path of a liquid-phase working fluid and a path of a wick member disposed the substrate; a communicating hole provided in the substrate for communicating the flow path of the liquid-phase working fluid of the substrate with the wick member; and vapor-phase working fluid; on at least one main surface of grains filling in the communicating hole..." as broadly claimed in claim 1. See e.g. the claims at cols. 10 –16. Eastman or Thomas renders obvious the claimed "grains filling in the communicating hole". See the abstract of Thomas, and at col. 4, lines 33-49 of Eastman. To combine the references would have been obvious to one of ordinary skill in the art in view of TeGrotenhuis' suggestion at col. 2, lines 30-37.

Page 3

Claims 2-4 each is deemed to be a matter of design choice and "selected" as claimed e.g., in claim 3.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a). Adkins et al discloses an apparatus providing transports of working fluids.
- b). Purzycki, Nishino et al and Jacob all disclose an apparatus providing for a gasliquid contact in communication with a wick.

Art Unit: 1764

Any inquiry concerning this communication or earlier communications from the examiner should be directed to V. Manoharan whose telephone number is (571) 272-1450.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VIRGINIA MANUHAHAN PRIMARY EXAMINER

ARTUNIT 123 / 744